

# KING COUNTY, WASHINGTON FINAL RECOMMENDATIONS REPORT PRESENTATION



### Agenda

- Project Scope, Purpose, Desired Outcomes, and Guiding Principles of Service
- Findings/Assessment of Current Environment
- Enhancement Opportunities and Considerations for the KCE9-1-1 Program Office
- Models Evaluated
- Optimal Model of PSAP Configuration Recommendations
- Summary



#### Crucial timing for study:

- Technology upgrades needed for NG9-1-1
- Regional radio system replacement project
- KCE9-1-1 is facing unsustainable funding if continuing on current path



## Study Purpose

Overview

Review Project Scope and Purpose

**Desired Outcomes** 





### Project Scope

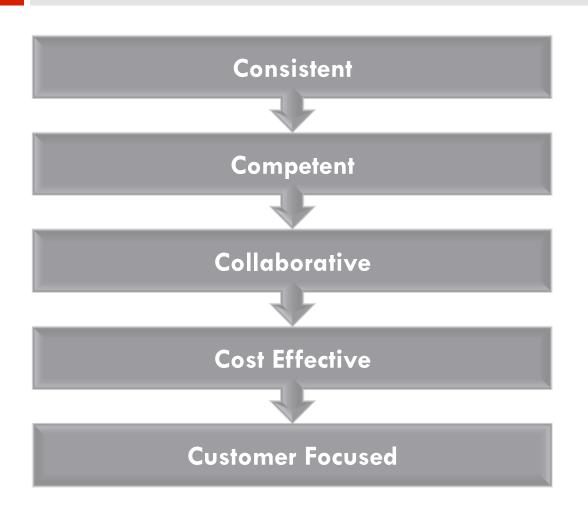
Assess whether the current PSAP structure provides the most efficient and effective emergency communications services possible, and to study goals focused on the potential for service improvements as well as cost savings that might be realized if a more consolidated approach to 9-1-1 service delivery was considered in the region.

### Project Scope

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- Fiscal sustainability of high quality9-1-1 Program
- Service to citizens and responsiveness to service goals
- Increased efficiency
- Feasibility of consolidation options

## Guiding Principles

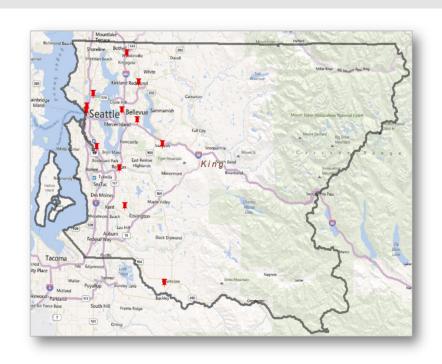






## Areas of Assessment - Current Environment

- Governance
- Funding
- □ KCE9-1-1
- Operations
- Training
- GIS
- Facilities
- Technology and Interoperability
- Redundancy, Diversity, and Continuity of Operations





### Governance Findings

KCE9-1-1 advisory committee representation and structure

Desire to preserve local decision-making

PSAP acceptance increases with shared governance

King County EMS participation

#### Governance Recommendations

- □ Governance Recommendations
  - Establish policy level oversight governance board
  - Establish appropriate committee support structure
  - If consolidation is pursued, establish an Implementation and Transition Team to assist with efforts
  - Consider whether King County
     EMS is appropriately represented
     on policy boards





#### Governance Recommendations

- Leverage formalized groups such as City Managers for information gathering and dissemination related to consolidation decisions and planning
- Highlight positives of already consolidated operations and experiences as discussions continue



## Funding Findings

2013 KCE9-1-1 financial distribution budget results in a decrease of the fund balance by \$3.4 million and the undesignated fund balance by \$3.8 million

2013 KCE9-1-1 Budget Financial Distribution							
Financial Support Component	Amount of Funding	Percent					
PSAP Support Costs	\$5,898,000	20.9 percent					
9-1-1 PSAP CPE Equipment, Network, and Database	\$12,905,975	45.9 percent					
Escrow	\$5,790,616	20.6 percent					
9-1-1 System Administration and Overhead	\$2,410,5884	8.5 percent					
Capital Expenditures	\$1,160,540	4.1 percent					



### Funding Findings

State and county excise tax for wireline, wireless, and VoIP are at the maximum rate

KCE9-1-1 funding not sustainable in the current structure

Present 9-1-1 system architecture more expensive to upgrade to NG9-1-1 and more expensive to maintain

## Funding Findings

PSAPs that are not already primary for wireless 9-1-1 calls desire to handle all calls originating within their jurisdiction

WSP is only state patrol dispatch center receiving funding from a county through its 9-1-1 surcharge revenue

#### Financial Recommendations

- Reassess KCE9-1-1 funding priorities to sustain long-term viability
- Reconsider the level and method of support for:
  - GIS and IT positions
  - Funding for other PSAP support personnel
  - Funding of a state agency
- Prioritize objectives and fund accordingly
  - Stabilize KCE9-1-1 funding
  - Distribute if excess realized
  - PSAP escrow as the lowest priority





## KCE9-1-1 Program Office NG9-1-1 Recommendations

- Advance NG9-1-1 implementation
- Implement additional technology sharing
- Review continuity of operations, redundancy, and backup



## KCE9-1-1 Program Office Other System Recommendations

- Monitor the development of RRRP plans for impact on E9-1-1, PSAPs, or other services
- Participate in RRRP planning
- Enhance TrainingProgram



### Training Findings

Training curriculum

Training Coordinator

Inconsistent standards for QA/QI programs

Various CTO
programs creates
disparity

Compliance with standards

TTY testing



## KCE9-1-1 Program Office Training Recommendations

Expand and enhance regional approach to training

Conduct a formal training needs analysis

Expand Training
Coordinator
responsibilities



## KCE9-1-1 Program Office Training Recommendations

Standardized QA/QI program

Minimum training requirement for trainers

Training
program
for supervisors

Minimum training requirements for PSAPs

### GIS Findings

- Centralized maintenance program within the MSAG
- GIS database updated with all PSAPs' CPEs
- Regular synchronization testing
- Synchronization exceeds current industry standards





## KCE9-1-1 Program Office GIS Recommendations

- Consider working with local jurisdictions
- Ensure synchronization levels reflect the accuracy of the data related to local changes
- □ Keep the GIS and MSAG data maintenance at KCE9-1-1



### **Operations Findings**

- Projected Workload and Staffing Levels
- □ Service level concerns
- High cost of firefighters in call taker positions



### Operations Findings

- Call Routing and Call Processing Findings
  - Wireless call routing policies
  - Calls requiring transfer take longer to process
  - Calls generally processed in accordance with common industry practices





### Operational Recommendations

#### **Call Routing**

- Consider reevaluating wireless call routing
- Consider options, methods, and procedures to reduce call transfers and call processing time

#### Staffing

 Increase staffing to appropriate levels

#### Operations and Operational Efficiency

- PSAP measure call processing times
- City of Seattle reevaluate the need to utilize firefighters in PSAP
- Channel loading concerns



## Facility Findings

- Most PSAP facilities are well-equipped and suitable
- Most are adequate in size
- PSAP backup power systems and grounding be evaluated
- Assess alternate PSAP locations for level of functionality





## Technology and Interoperability Findings



- Multiple CAD systems
   throughout the region complicate
   call processing
- Agencies open to exploring technology sharing
- Interoperable communications governance and regional and state plans



## Technology and Interoperability Recommendations

#### **Technology**

- Continue CAD interoperability project
- Discuss the feasibility of a regional CAD platform
- Consider opportunities for virtual consolidation of common technologies/systems

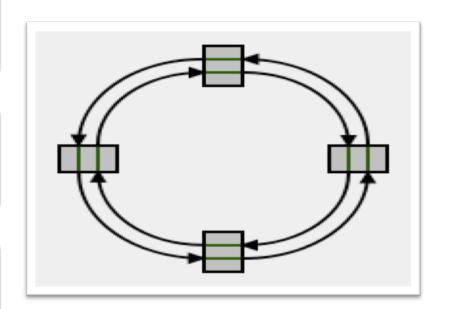


## Redundancy, Diversity, and Continuity of Operations Findings

Considerable redundancy

High cost

Review current standards and technology

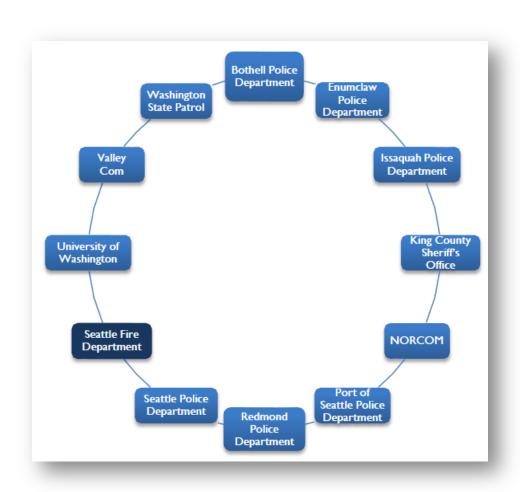


## Redundancy, Diversity, and Continuity of Operations Recommendations

- Consider the opportunity of redundant centralized switches and redundant connections from the PSAP to more than one switch
  - Single point of failure for each PSAP is mitigated
  - Centralizing the switches reduces costs
- Consider use of microwave links



## **Current Configuration**





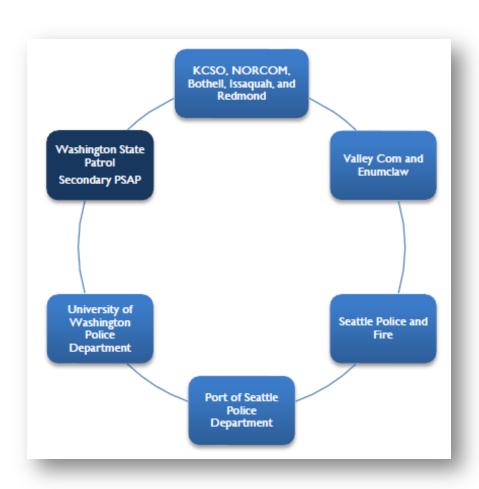
#### Other Models Evaluated

Various Configurations

Model "B"

No change

## **Optimum Model Recommendations**





## Optimum Model Recommendations - Governance

Shared decision-making process that is fair and equitable

Equal representation on the Governance Board

Contract cities represented by their "principal"

Ancillary duties



## Optimum Model Recommendations - Financial

Implementation and Transition Team responsible for financial implementation considerations and decisions

City of Seattle fiscal planning and facility needs assessment

Redesign an appropriate and equitable funding and distribution methodology

Implement KCE9-1-1 funding recommendations



## Optimum Model Recommendations - Financial

City of Seattle fiscal planning and a facility needs assessment

Develop an appropriate and equitable funding and distribution methodology

KCE9-1-1 should reevaluate funding support for PSAPs based on new model

KCE9-1-1 should discontinue or reduce funding for technical support

KCE9-1-1 should hold 9-1-1 escrow funds



### Optimum Model Recommendations

Staffing and Cost Comparison between Current (Status Quo) <sup>3</sup> and the Optimum Model							
Description	Status Quo Staffing Cost	Optimum Staffing Cost 4	Staffing Costs Savings/ Difference	Status Quo Call Takers	Optimum Call Takers	Call Takers Difference (Optimum)	
Seattle Fire Department	\$4,154,634	\$14,602,977	\$540,821	24	59	8	
Seattle Police Department	\$10,989,164			43			
Enumclaw	\$478,817	\$12,370,500	\$(634,522)	6	59	-1	
Valley Com	\$11,257,161			44			
Bothell	\$1,537,821	\$17,315,607	\$2,993,647	10	76	76 42	
Issaquah	\$983,688			9			
Redmond	\$1,723,120			16			
KCSO	\$7,688,646			18			
NORCOM	\$8,375,979			65			
University of Washington Police Department	\$832,746	\$832,746	\$ -	8	8		
Port of Seattle Police Department	\$1,535,438	\$1,535,438	\$ -	16	16		
WSP	\$5,160,320	\$5,160,320	\$ -	5	5		
Totals	\$54,717,534	\$51,817,589	\$2,899,946	264	223	4	

Call taker cost savings alone compared to the current situation is approximately \$2.9 million per year (2012 costs)

## Optimum Model Recommendations – Operations and Staffing

#### **Operations**

- Fire district boundaries
- Cross-train dispatchers
- Minimizes transfers

#### Staffing

- Evaluate the channel loading models
- Determine minimum staffing levels
- Evaluate the need to utilize firefighters in PSAP

## Optimum Model Recommendations — Technology and Facility

## **Technology**

- County-wide CAD
  - Single vendor
- Share technology
- Modify design for NG9-1-1

## **Facility**

- City of Seattle
- Redesign KCSO facility





## Optimum Model Recommendations - Budget

Budget Cost Comparison Current Budget (Status Quo) and Optimum							
Description	Status Quo Total Expenditures	Optimum Total Expenditures	Savings/ Difference Total Expenditures	Optimum Cost Per Call	Status Quo Cost Per Call		
Seattle Fire Department	\$7,209,717	\$18,565,243	\$2,267,607	\$20.71	\$42.98		
Seattle Police Department	\$13,623,133				\$16.80		
Enumclaw Valley Com	\$563,214 \$15,500,787	\$16,782,919	(\$718,918)	\$18.83	\$16.34 \$18.09		
Bothell	\$1,619,128	\$20,209,728	\$4,465,483	\$16.13	\$23.19		
Issaquah Redmond	\$1,216,970 \$2,096,271				\$21.23 \$26.08		
NORCOM	\$9,146,225 \$10,596,617				\$13.86 \$26.08		
University of Washington Police Department	\$967,672	\$967,672	\$0	\$23.77	\$23.77		
Port of Seattle Police Department	\$1,784,219	\$1,784,219	<b>\$</b> 0	\$23.77	\$23.77		
VVSP	\$5,996,426	\$5,996,426	\$0	\$23.77	\$23.77		
Totals	\$70,320,379	\$64,306,207	\$6,014,172				



## Summary

- Independent evaluation found consolidation is <u>feasible</u> and discussions should continue
- Optimum model aligns with the Principles of E9-1-1 Service
- Principles developed and articulated by the PSAPs in King County can be met
- Consolidation discussions are never popular



### Conclusions

We are confronted with insurmountable opportunities....

Pogo



### Questions

